def fact\_rec(n):

if n == 0 or n == 1:

return 1

else:

return n\*fact\_rec(n-1)

number = int(input("enter a value"))

res = fact\_rec(number)

print("the factroial of {} is {}.". format(number,res))

program2

def isLeapyear(year):

if(year % 4 == 0 and year % 100 != 0) or year % 400 == 0 :

return True

else:

return False

year = int(input("enter a year:"))

if isLeapyear(year):

print('{} is a leap year .'. format(year))

else:

print('{} is not a leapyear .'.format(year))